

FIG. 1A

FIG.1B

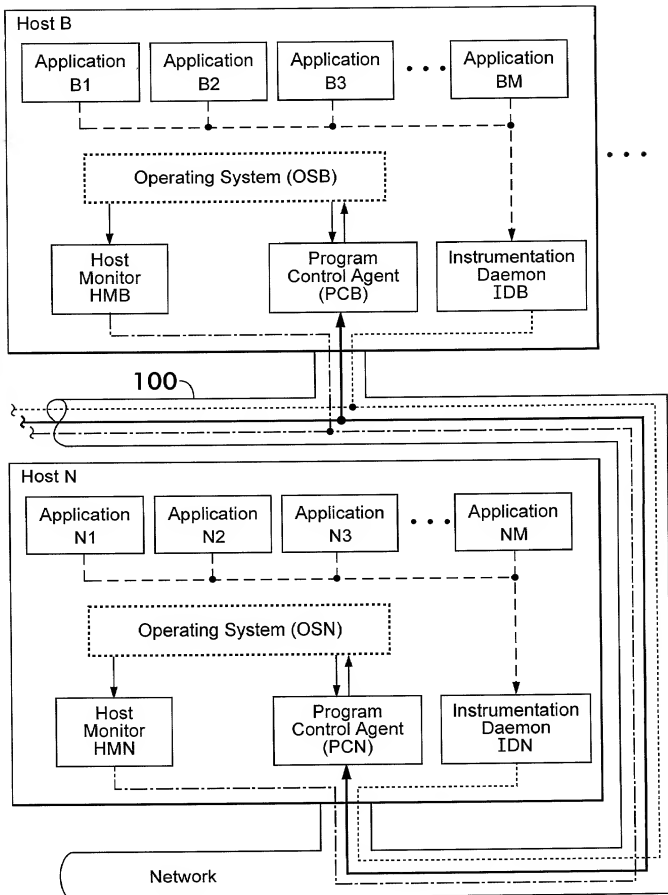


FIG. 2A

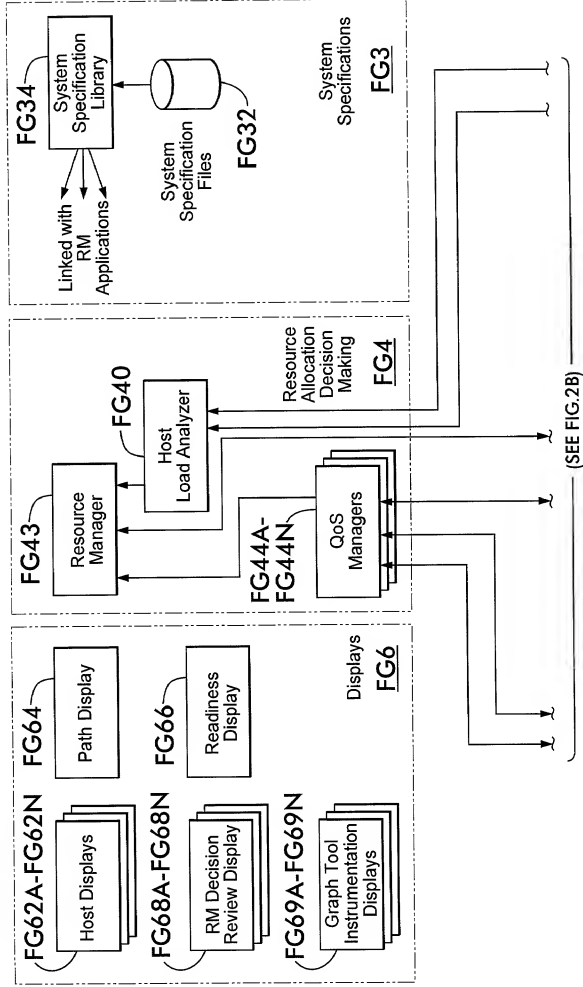
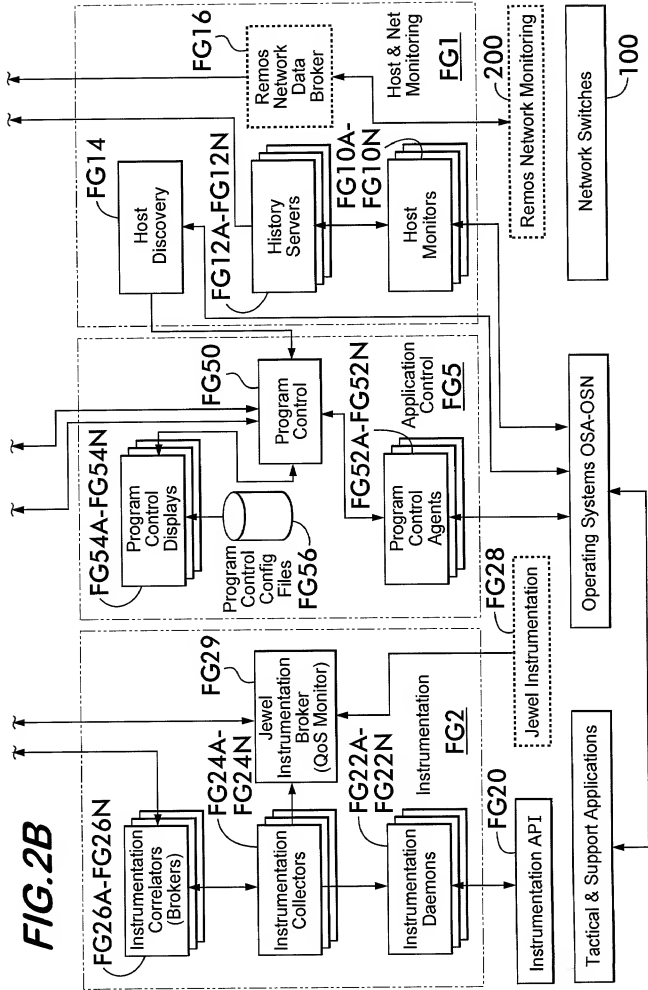


FIG. 2B



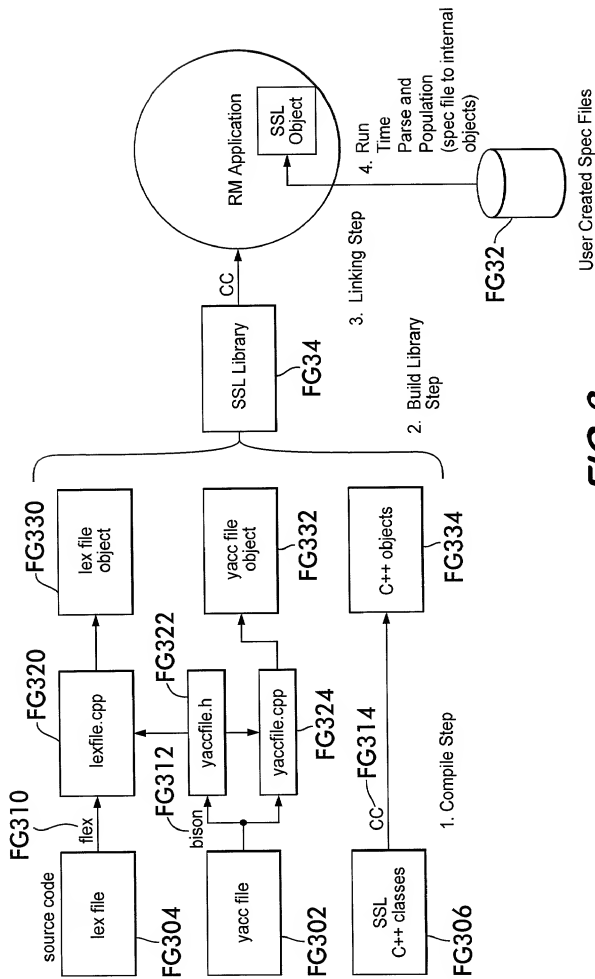
**FIG.3**

FIG. 4

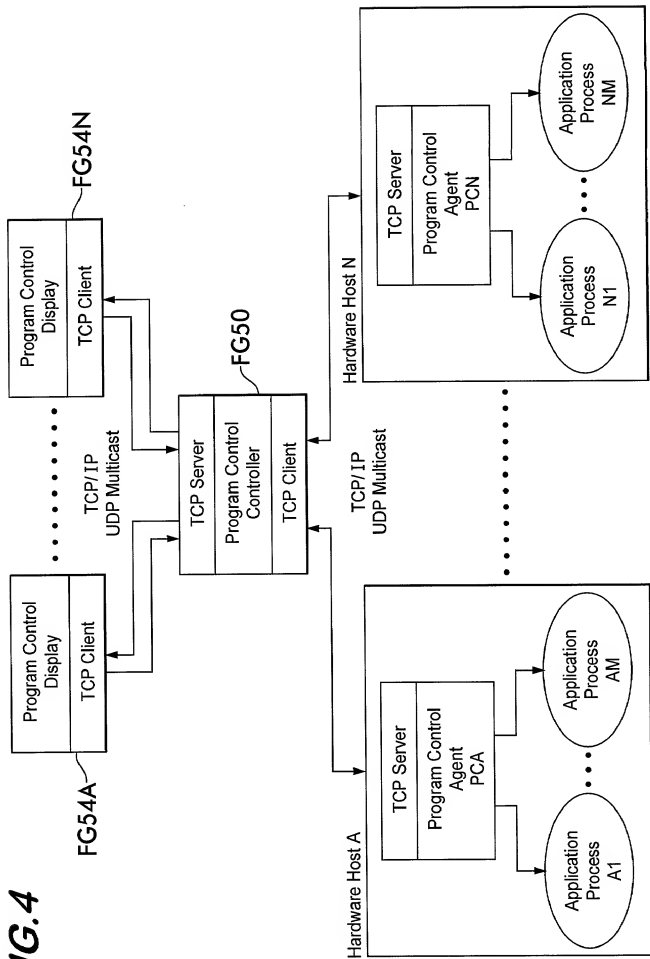


FIG. 5A

Program Control Display				Help
File	Edit	Options	Tools	
<input type="checkbox"/> Start Selected <input type="checkbox"/> Stop Selected		<input type="checkbox"/> Edit Mode <input type="checkbox"/> Without Dependencies <input type="checkbox"/> Run-Order View		
<input type="checkbox"/> Host Info <input type="checkbox"/> Available Hosts		<input type="checkbox"/> Start Configuration <input type="checkbox"/> Stop All		
Hostname	Application	Hostname	Process ID	
alpha1	AAW:Displays:State_Server	alpha1		
alpha2	AAW:Displays:ftc term	alpha1		
alpha3	AAW:Displays:Tactical_Picture	alpha1		
serpens	AAW:Tactical_Services:Engagement_Server	serpens		
adara1	AAW:Tactical_Services:Engagement_Server	alpha1		
adara2	AAW:Tactical_Services:Engagement_Server	alpha3		
adara3	AAW:Tactical_Services:Deconfliction_Server	alpha2		
adara4	AAW:Tactical_Services:Doctrine_Server	alpha2		
adara5	DIICOE:DII_COE_Services:Tdbm	draco		
pallas	DIICOE:DII_COE_Services:DII_COE_Broker	draco		
	DIICOE:DII_COE_Display	lepus		

(SEE FIG. 5B)

Auto	lafonte	AAW:Tactical_Sims:Manual_Engage	serpens
Manual	lafonte	AAW:Tactical_Sims:WCS_Simulator	alphe3
Auto	lafonte	AAW:Tactical_Sims:Gun_Simulator	serpens
Auto	lafonte	AAW:Tactical_Sims:CFF_Broker	serpens
Manual	lafonte	IDSys:ID_Broker	corvus
Manual	lafonte	IDSys:SpyServer	deneb2
Auto	lafonte	AAW:Tactical_Sims:IDU_Simulator	serpens
Auto	lafonte	AAW:Doctrine:Auto_Special	serpens

USA	Alerts
algol	
carina	
cetuss	
corvus	
cordelia	
draco	
juliet	
leda	

FIG.5B

FIG. 6A

(SEE FIG. 6B)

HiPerD -CG62

SGI Compute Pool

electra3
IP27
IRIX64

platform_generator.
engagement_server.i

electra2
IP27
IRIX64

History_server.iris
iff_sim.iris

electra1
IP27
IRIX64

instru_collector.ir
missile_generator.m
qosmon.iris6.5

Sun Compute Pool

sensim
track_controlle
othds
rts

altair6
sun4u
SunOS

altair12
sun4u
SunOS

engagement_serv

tnt
rtids
tns2000
kined

altair5
sun4u
SunOS

altair11
sun4u
SunOS

auto_special.so
auto_sm.solaris
semiauto.solari

kined_broker
mfar_broker

ndds_ownership
track_processor
atd
faux_client
rts_vmc

altair4
sun4u
SunOS

altair10
sun4u
SunOS

decon_server.so
manual_engage.s

state_server.so
la_server.solar

altair3
sun4u
SunOS

altair9
sun4u
SunOS

rtids
land_data_broke
doctrine_client
spy_broker

altair2
sun4u
SunOS

altair8
sun4u
SunOS

engagement_serv
qosmgr.solaris2

doctrine_server
gun_sim.solaris
cff_broker.sola
id_broker.solar
navdata_server.

altair1
sun4u
SunOS

altair7
sun4u
SunOS

0084421.001901
106160.12849860

FIG. 6B

Chancellorsville

DISBroker.linux
globus-daemons-
lrmstatus.csh
globusbroker.li
globusbroker.li
globusbroker.li
mfar_sim.ndds.l

lupus1
Pentium III (c
Linux

lupus11
Pentium III (c
Linux

lupus10
Pentium III (c
Linux

Linux Compute Pool

WinNT Compute Pool

java

phoebe7
Pentium Pro
Windows NT

lupus9
Pentium III (c
Linux

lupus8
Pentium III (c
Linux

java
java
java

phoebe6
Pentium Pro
Windows NT

lupus7
Pentium III (c
Linux

lupus6
Pentium III (c
Linux

java

phoebe4
Pentium Pro
Windows NT

lupus5
Pentium III (c
Linux

phoebe3
Pentium Pro
Windows NT

lupus4
Pentium III (c
Linux

java

phoebe2
Pentium Pro
Windows NT

lupus3
Pentium III (c
Linux

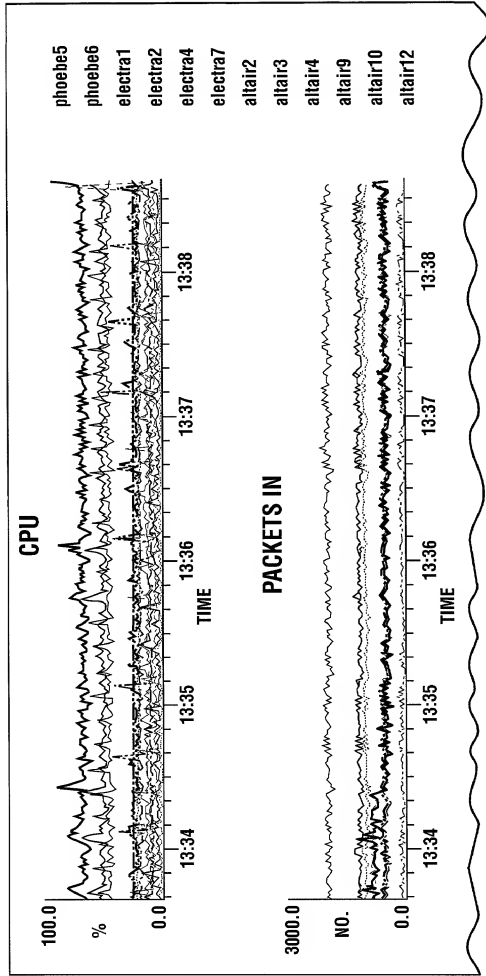
java

phoebe1
Pentium Pro
Windows NT

lupus2
Pentium III (c
Linux

009103 12849860

FIG. 7A



(SEE FIG. 7B)

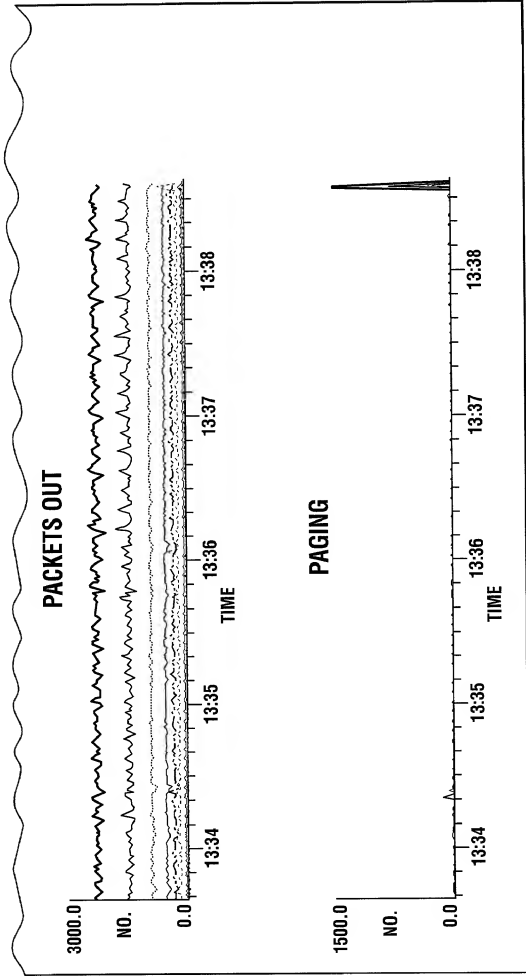
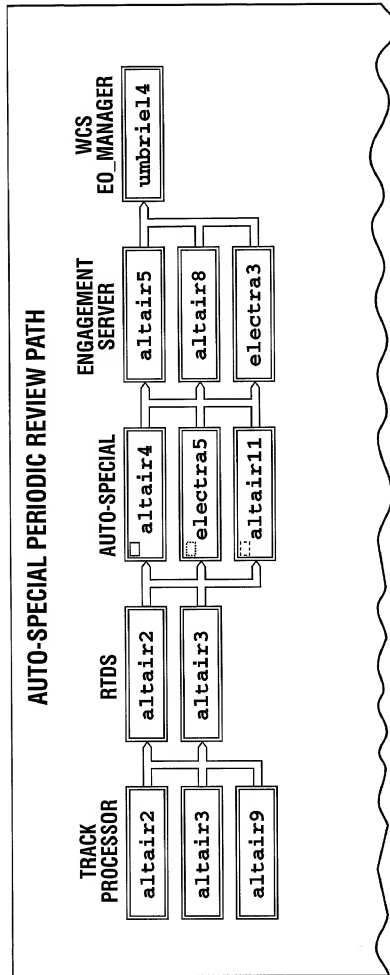


FIG.7B

FIG. 8A

(SEE FIG. 8B)

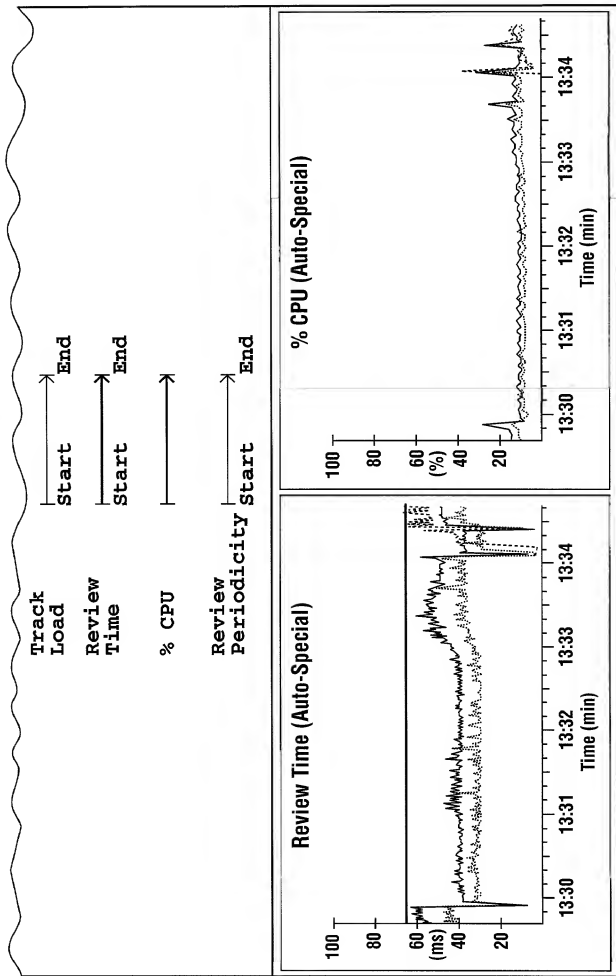


FIG.8B

FIG. 9A

Resource Management

☐ SCALE UP PLOT

EVENTS HISTORY	EVENT#	ACTION TYPE	APPLICATION NAME	HOST EVENT	HOST ACTION
	25	Application Scale Down	TBM_Doctrine	lupus7	
	26	Application Scale Down	TBM_Doctrine	lupus7	
	27	Application Scale Down	Engageability	altair10	
	28	Application Scale Down	Engageability	altair12	
	29	Application Scale Down	Engageability	altair8	
	32	Application Restarted	QosManager_SpyDeclaredAS	orion1	altair8
	33	Application Scale Up	Semi_Auto	altair11	electra2
	34	Application Scale Up	Semi_Auto	altair11	altair7
	35	Application Scale Up	Auto_Special	altair11	altair9
	36	Application Scale Up	Semi_Auto	altair11	altair3

APPLICATION:	Semi_Auto	EVENT#:	36
EVENT:	Application Overload		
	PIO-9615 ON HOST altair11		
EVENT TIME:	14:24:56.6955		
ACTION:	Application Scale Up		
	PIO:10186 ON HOST altair3		
ACTION TIME:	14:24:56.6427		14:24:56.6946
RESPONSE TIME:	0.0073		0.0491

APPLICATION:	Auto_Special	EVENT#:	35
EVENT:	Application Overload		
	PIO-9613 ON HOST altair11		
EVENT TIME:	14:24:33.2620		
ACTION:	Application Scale Up		

(SEE FIG. 9B)

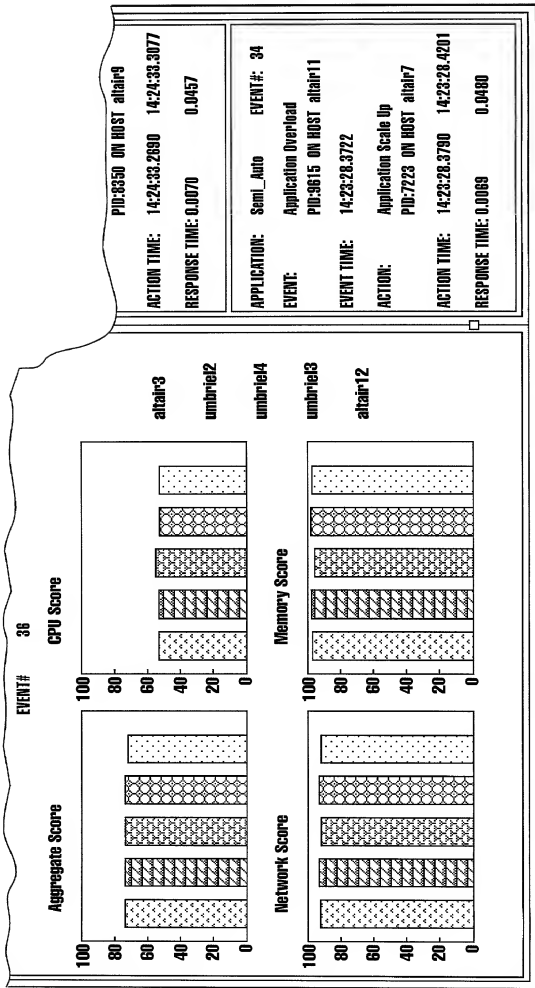
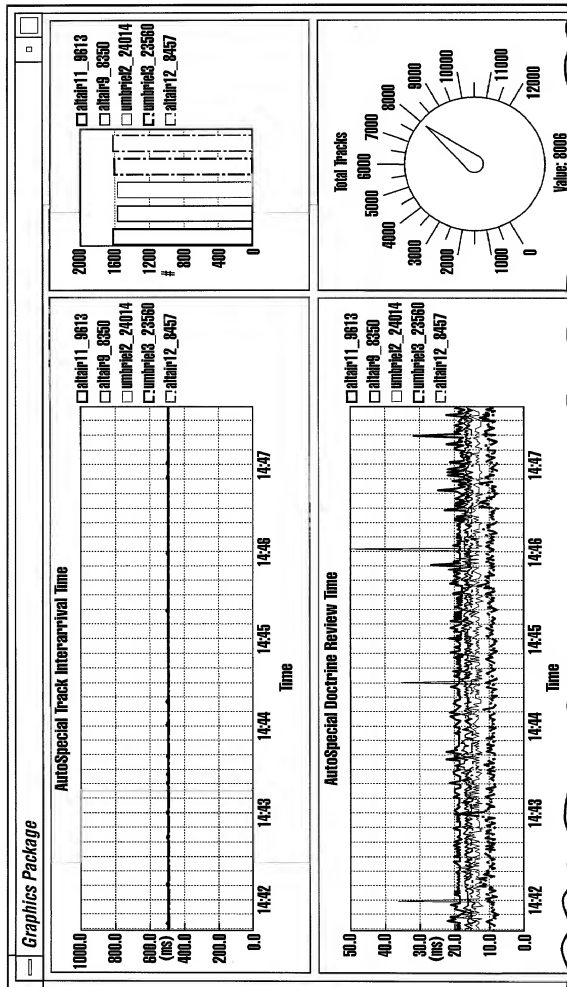


FIG.9B

FIG. 10A



(SEE FIG. 10B)

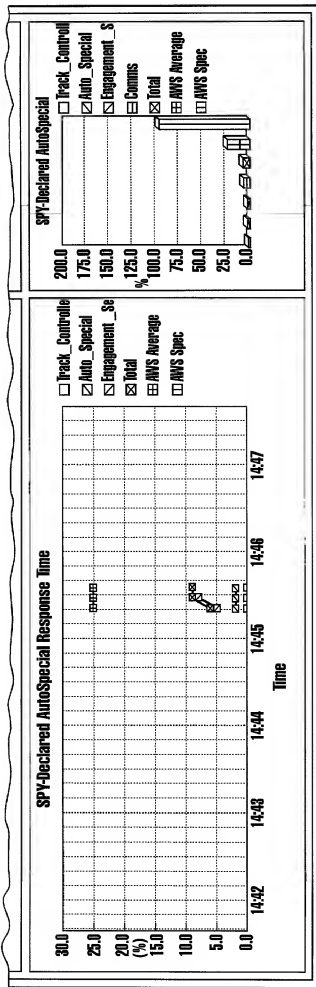
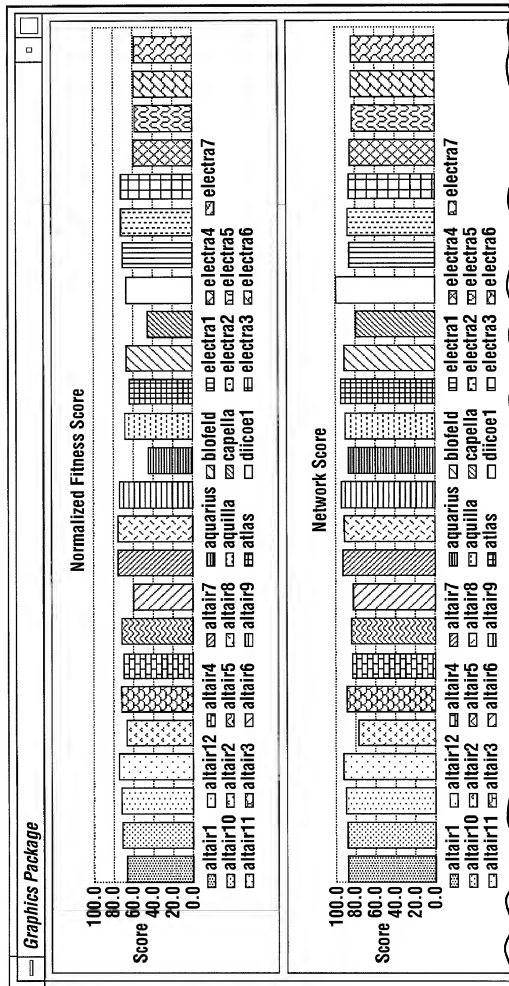
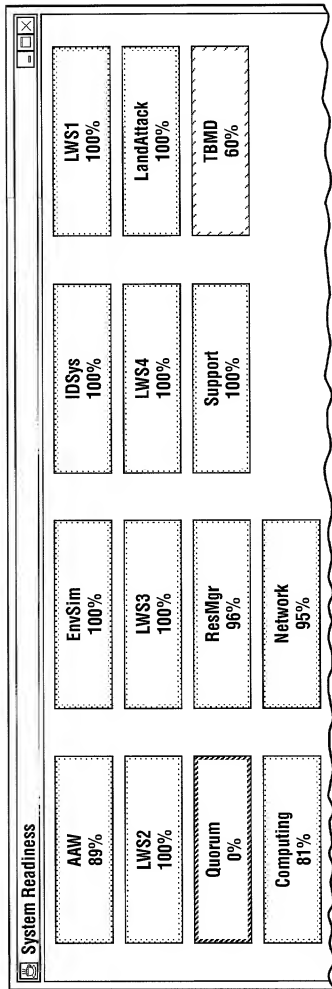


FIG.10B

FIG. IIA



(SEE FIG. 11B)

FIG.12A

(SEE FIG. 12B)

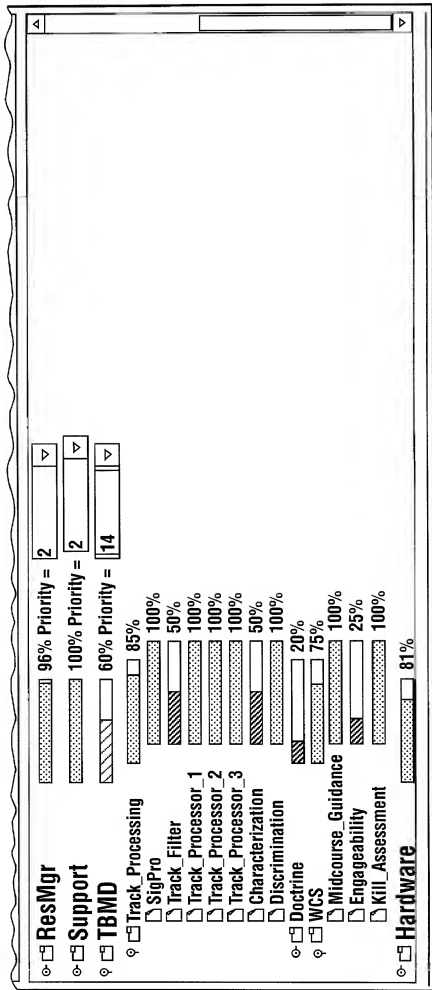


FIG.12B

FIG. 13A

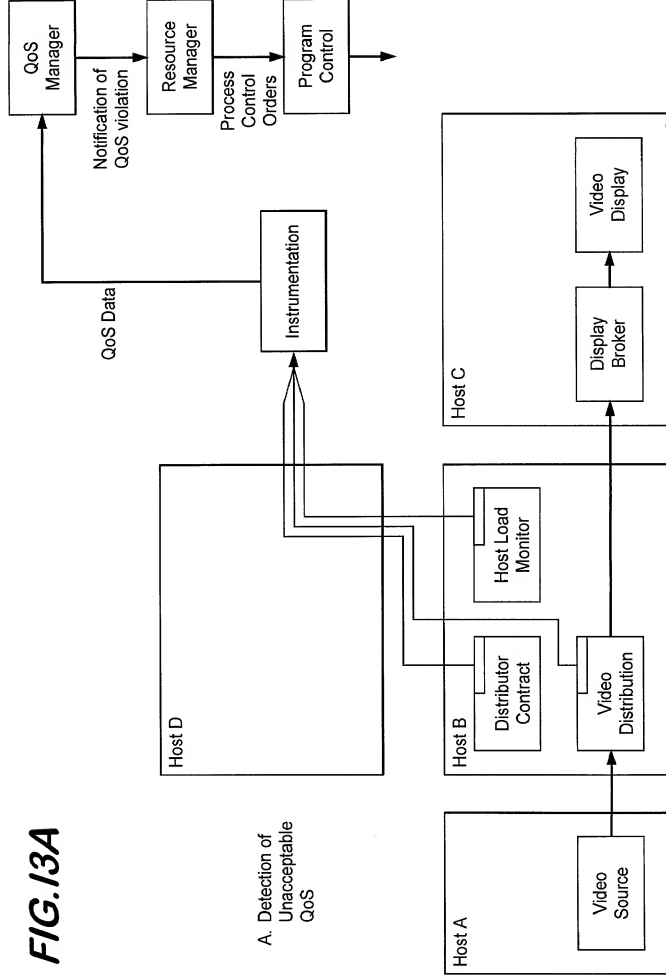


FIG.13B

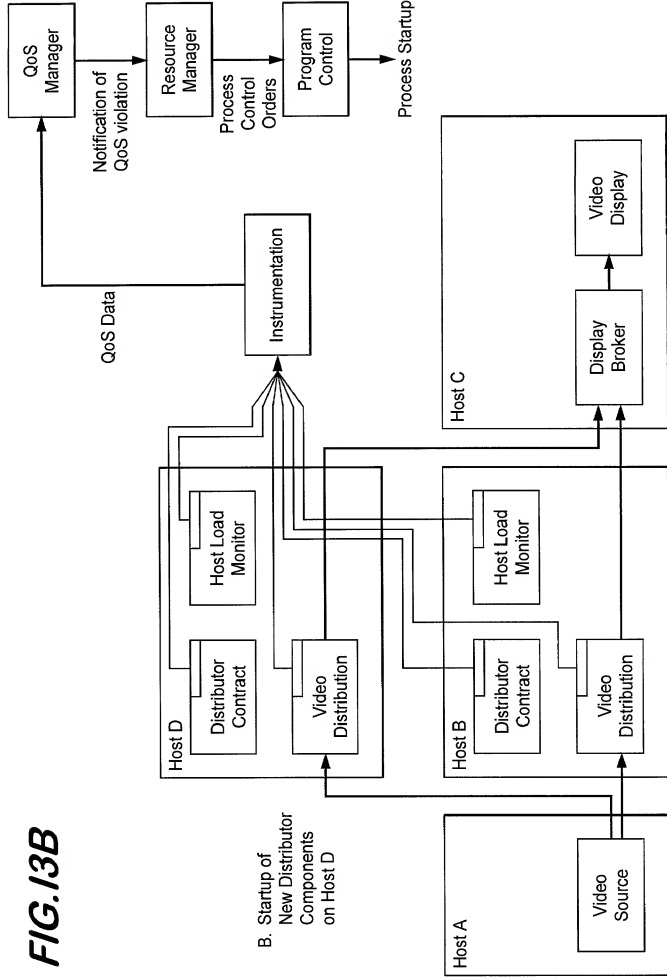


FIG.13C

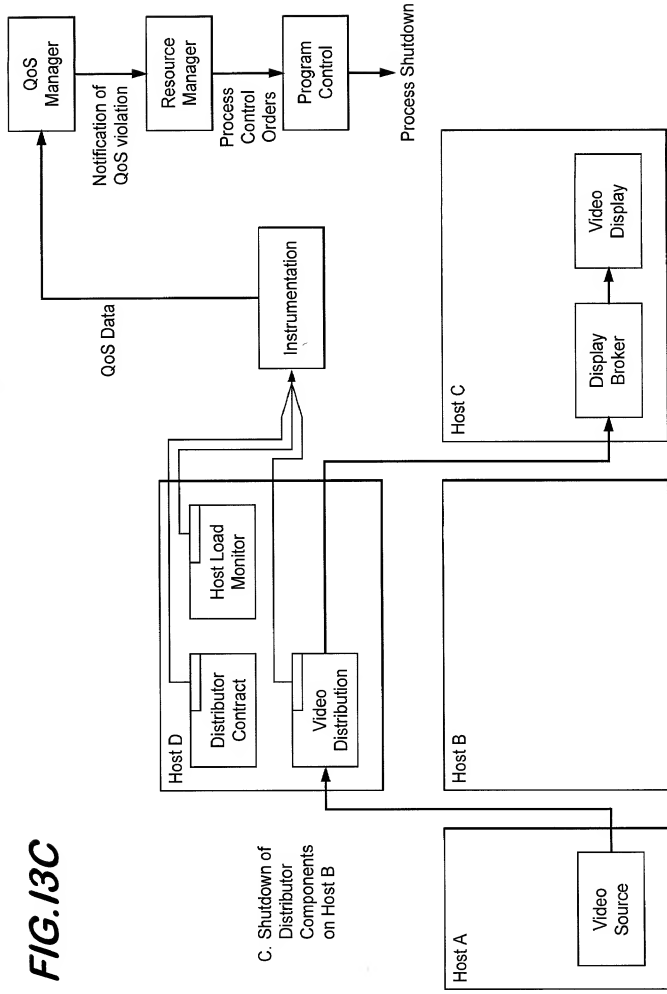


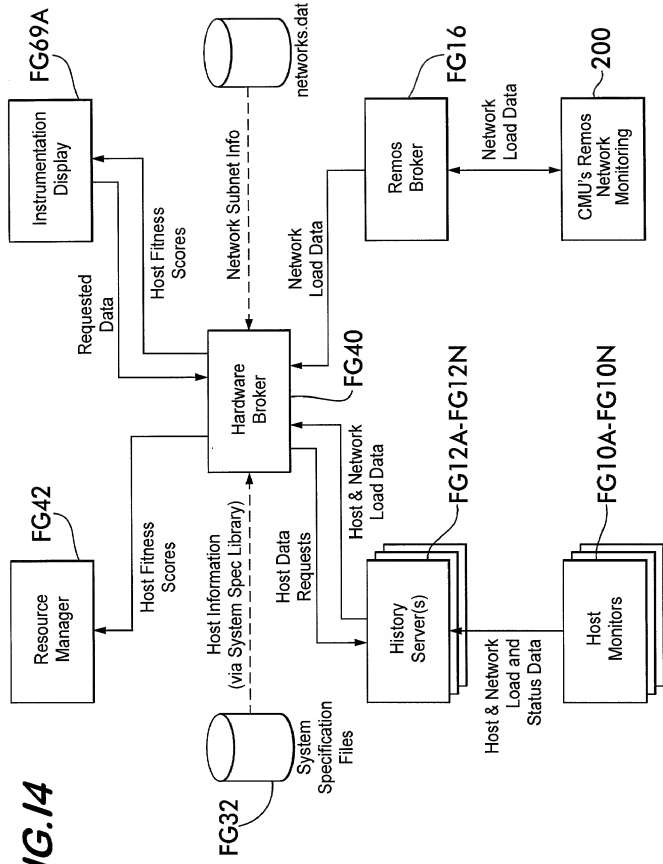
FIG. 1A

FIG.15

